# THE MASSACHUSETTS SCHOOL OF OPTOMETRY

(INCORPORATED)

*Established 1894*

BULLETIN

A STANDARD SCHOOL OF OPTOMETRY
CLASS A

*Member of International Federation of Optometry Schools*

1112 BOYLSTON STREET

BOSTON, MASS.

## ANNOUNCEMENT

During the past few years, the laws governing the practice of Optometry have been amended by many State Legislatures to require a higher standard of educational efficiency. Although these requirements vary in the different States, it is essential that an Optometry school of national scope adjust its curriculum to meet the requirements of the section from which the school draws matriculates.

## FEDERATION OF OPTOMETRY SCHOOLS

A Council on Optometry Education has been appointed by the Educational Department of the American Optometric Association for the purpose of encouraging and developing all Standard Optometry Schools so that the student who wishes to qualify may know that he will get the proper instruction. Every Optometry School must be endorsed by the Council before becoming a member of the Federation of Schools. Only those schools maintaining certain standards as to Faculty, Equipment and Teaching will be accepted as members and recognized by the various Optometry Boards.

# SPECIAL ANNOUNCEMENT
## TO SUPPLEMENT
# THE CURRENT BULLETIN

The change from a three-year to a four-year course that becomes effective in September 1937 has made it necessary to arrange a new program. The work involved has delayed publishing a catalog covering the four-year course.

The following covers the subjects to be given during each of the four years, but the outline of each course will not be ready until later this season.

### First Year

ENGLISH
ALGEBRA (Review and College)
GEOMETRY
PLANE TRIGONOMETRY
PHYSICS
CHEMISTRY
BIOLOGY
OPTICAL SHOP PRACTICE

### Second Year

GENERAL AND OCULAR ANATOMY
GENERAL AND OCULAR PHYSIOLOGY
THEORETIC OPTOMETRY
THEORETIC OPTICS
PHYSIOLOGICAL OPTICS
PRACTICAL OPTICS
OPTICAL SHOP PRACTICE

### Third Year

THEORETIC OPTOMETRY
CLINICAL CONFERENCE
THEORTIC OPTICS
PHYSIOLOGICAL OPTICS
PRACTICAL OPTICS
GENERAL AND OCULAR PATHOLOGY
CLINICAL PRACTICE
OPTICAL SHOP PRACTICE

### Fourth Year

OCULAR PATHOLOGY
CLINICAL PRACTICE
OPTICAL SHOP PRACTICE
CLINICAL CONFERENCE
BUSINESS PRACTICE

The school reserves the right to make any changes considered advisable.

## Tuition and Other Fees

Application fee of $5.00 to accompany application.

Tuition each year .....$350.00

Tuition fee includes all laboratory fees.

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# THE MASSACHUSETTS SCHOOL OF OPTOMETRY

## OFFICERS OF ADMINISTRATION

THEODORE F. KLEIN, OPT., *President, Registrar*

J. ALDEN HIGGS, OPT., *Clerk*

HERMAN L. KLEIN, OPT., *Treasurer*

## FACULTY

THEODORE F. KLEIN, OPT., 1112 Boylston Street.
*President, Registrar*
Theoretic and Practical Optometry

W. A. SVENDSEN, OPT., 1112 Boylston Street.
Anatomy and Histology

FOSTER NAMIAS, O.D., 1112 Boylston Street.
Practical Optics

RALPH H. GREEN, OPT.D., 236 Huntington Avenue.
Theoretic and Practical Optometry

PAUL S. CLINE, O.D., 1112 Boylston Street.
Physiological Optics and Theoretic Optics

FREDERICK E. BRUCKER, S.B., 1112 Boylston Street.
Mathematics and Physics

JOHN W. GRAHAM, OPT.
Opthalmic Lens Grinding

HERMAN L. KLEIN, OPT., 101 Tremont Street.
Business Management

ALBERT S. SLOANE, M.D.,
Pathology and Hygiene

H. WILLIAM BENCKER, M.D., Jamaica Plain, Mass.
Physiology and Embryology

WALTER J. MCCABE, OPT.
Practical Optometry

CHARLES D. WEATHERS
Shop Assistant

LEWIS HUNTINGTON
Shop Assistant

ALYCE M. MCCABE, 1112 Boylston Street.
Secretary to Registrar

## CLINICAL STAFF OF THE MASSACHUSETTS SURGICAL AND OPTOMETRICAL EYE INFIRMARY

August A. Klein, M.D.
H. William Bencker, M.D.
Ralph H. Green, Opt.D.
Foster Namias, O.D.
W. A. Svendsen, Opt.
Paul S. Cline, O.D.
Walter J. McCabe, Opt.

## GENERAL STATEMENT

The Massachusetts School of Optometry, established in 1894, is a co-educational institution. It is not run for profit.

It is located in an educational district with excellent opportunities for clinical instruction. The laboratories are supplied with modern equipment for teaching and research.

The course of instruction extends over three academic years, and is planned so as to emphasize the general training of the student for the practice of Optometry. The number of students in the various classes is limited in order to assure proper instruction and to permit a full utilization of facilities. While the work of the first year is largely scientific in character, a sufficient amount of clinical work is introduced to assure a continuity of interest.

Library facilities are ample, inasmuch as the students not only have access to the school library, but also to the Boston Medical Library and the Boston Public Library.

## REQUIREMENTS FOR ADMISSION

Matriculant shall have completed a four-year course of at least sixteen units in an accredited high school or secondary school, or have the equivalent as determined by examination to be conducted by the authorized examiner of a stand-

ard college or university approved by the Council on Optometric Education or by a State Examination Board.

The subjects required as part of an accredited high school course are:

**SEE SPECIAL ANNOUNCEMENT**

| | |
|---|---|
| English | 4 years |
| Foreign Language | 2 years |
| Algebra | 1 year |
| Geometry | 1 year |
| History | 1 year |
| Laboratory Science | 1 year |

Such further studies may be offered as will make up a total of sixteen units which are required for entrance.

All students desiring to enter are required to submit an application upon the form provided by the school.

This application must be accompanied by an application fee of $5.00. Upon notification of acceptance the applicant is required to make a deposit of $25.00 to insure a place in the class to which entrance is sought. This deposit is credited to the first semester's tuition upon the completion of matriculation.

## ADVANCED STANDING

Advanced standing to the second or third year class is allowed, provided vacancies occur, to those who have completed the necessary entrance requirements and who have taken, in acceptable Optometry schools, courses which are the equivalent of those offered in this institution.

**Applicants for such advanced standing must demonstrate to the heads of departments in those courses for which they seek credit that their qualifications are satisfactory in every respect.** In each instance a personal interview is necessary before final acceptance.

## MARKING SYSTEM

The grade marks given are: A—Excellent; B—Good; C—Average; D—Poor; E—Failed.

A student is required to have an average of "C" for graduation. For purposes of computation, letter grades are converted into numerical equivalents and a factor system is used to determine the relative importance of each course, and to arrive at an average grade for the year. The mere attainment of passing grades does not insure promotion or continuation in the School.

Re-examination will be permitted for the removal of deficiencies only in those cases approved by the Promotion Committee. Such approved examinations are conducted during the week preceding the opening of the School in the fall.

The continuance in good standing of any student is dependent upon the satisfactory fulfillment of the rules and regulations of the School, as well as the observance of such moral standards as are deemed fitting for one preparing for the practice of Optometry.

A student who withdraws from the School for good and sufficient reasons may be subsequently reinstated, provided, not too long a time has elapsed; and provided that changes in the curriculum do not render such readmission impracticable.

**The right is reserved to dismiss a student at any time, or to refuse recommending him for promotion or graduation.**

## TUITION AND OTHER EXPENSES

| | |
|---|---|
| Publication Fee . . . . . | $ 1.00 |
| Registration Fee . . . . . | $ 5.00 |
| Tuition each year . . . . . | 300.00 |
| Graduation. All expenses included . . | 25.00 |
| Certificate Fee . . . . . | 10.00 |
| Student Activities, including gymnasium . | 10.00 |

The total fees for the first year is $316.00, for the second year $301.00, and for the third year is $326.00.

The total cost of equipment for the three years from $75.00 to $150.00, according to the type and quality selected.

## CURRICULUM

**SEE SPECIAL ANNOUNCEMENT**

### First Year

| *First Semester* | *Second Semester* |
|---|---|
| Mathematics | Mathematics |
| General Anatomy | Ocular Anatomy |
| General Physiology | Ocular Physiology |
| Practical Optics | Practical Optics |
| Physics | Physiologic Optics |
| Theoretic Optometry | Theoretic Optics |
| | Theoretic Optometry |

### Second Year

| *First Semester* | *Second Semester* |
|---|---|
| Clinical Optometry | Theoretic Optometry |
| Theoretic Optometry | Practical Optometry |
| Practical Optometry | Practical Optics |
| Practical Optics | Physiologic Optics |
| Physiologic Optics | Theoretic Optics |
| Theoretic Optics | Ocular Pathology |
| Hygiene | Hygiene |
| General Pathology | Clinical Optometry |

### Third Year

| *First Semester* | *Second Semester* |
|---|---|
| Clinical Optometry | Clinical Optometry |
| Theoretic Optometry | Theoretic Optometry |
| Physiologic Optics | Physiologic Optics |
| Ocular Pathology | Practical Optics |
| Practical Optics | Office Practice |

## DEPARTMENT OF INSTRUCTION

### First Year

#### Mathematics

Review of the elementary mathematics, after which the student is taught advanced algebra, especially those operations which are most useful in his work.

Plane trigonometry is included in the second semester.

#### Anatomy

Gross Anatomy, Anatomy of the Nervous System, General Histology and Embryology, Ocular Histology and Embryology.

#### Physiology

General Physiology of the Human Body and Ocular Physiology.

#### Practical Optics

Study of the various kinds of lenses, history, and shop practice.

#### Physics

A course in general Physics and elementary Theoretic Optics.

#### Theoretic Optometry

History of Optometry, elementary tests and description of various Optometric apparatus. This course is designed especially to hold the interest of the student.

#### Physiologic Optics

Elementary study of action refracting media on light, definitions, simple experiments on accommodation and convergence.

### Second Year

#### Theoretic Optometry

Continuation of first year elementary Optometry, explanation of various Optometric apparatus.

This course runs parallel with Practical Optometry.

PRACTICAL OPTOMETRY

Training in the use of various instruments and methods used for the detection and measurement of refraction and muscular anomalies. The conduct of cases.

CLINICAL OPTOMETRY

Practical experience in examination of clinical patients, discussion of every clinical case. Course given with Practical Optometry.

PRACTICAL OPTICS

Continuation of first year work with intensive training in neutralization, edging and mounting, frame adjustments.

PHYSIOLOGIC OPTICS

Continuation of first year work, various divisions of visual perception, theories, ametropia. This embraces practically the subject matter found in Tscherning's Physiologic Optics.

THEORETIC OPTICS

Continuation of first year work with additional study of reflection and refraction by mirrors, lenses and prisms. Laboratory experiments.

PSYCHOLOGY. *Given Under Hygiene*

Introductory course in sensation and perception with special stress on attention, memory and association. Mechanism involved in various movements. Visual sensations.

GENERAL PATHOLOGY

Includes Bacteriology, Causes of disease, nomenclature, definitions, Relation of Optometrist to Physicians, Oculists and Patients.

OCULAR PATHOLOGY

Intensive study of the various forms of ocular pathology, diseases of nervous and other systems and their relation to ocular pathology, intensive study of pathologic conditions by means of ophthalmoscope.

### Hygiene

General Hygiene with special emphasis upon hygiene and prophylactic procedure as applied to the eye, first aid.

## Third Year

### Clinical Optometry

Clinical conferences and analysis of cases, practical experience in examination of patients, orthoptic training, lectures and demonstrations on the use of new appliances presented for trial.

### Theoretic Optometry

Advanced study of modern equipment and methods of practice, ethics of the profession.

### Physiologic Optics

Continuation of second year work with special emphasis on problems requiring investigation.

### Ocular Pathology

Continuation of second year work with special emphasis on relation of general diseases and vision, intensive training in ophthalmoscopy and field study.

### Practical Optics

Continuation of second year work with special emphasis on adjusting and bifocals.

### Office Practice

Psychology of the examining room, handling of patient, selection of office location and questions which arise in the establishment of a practice.

**The Committee on Courses reserves the right to make such additions and changes in the curriculum as are deemed advisable.**

## HOURS

All classes from 9.00 A.M. to 5.00 P.M. daily.
No classes Saturday.

## TEXT-BOOKS AND REFERENCE BOOKS

At current prices, the text-books needed for the first year will cost $32.00. For the second year will cost $20.00, and for the third year will cost $10.00.

The faculty reserves the right to make additions and changes in the list of books as are considered available.

### ANATOMY, EMBRYOLOGY, HISTOLOGY

Text-Books, Gray's Anatomy, twenty-first edition. Collateral Reading. Potter, Quiz, Compend of Anatomy; Ransom, Anatomy of the Nervous System; Piersol, Text-book of Normal Histology; Mann, Development of the Human Eye; Piersol, Human Anatomy.

### MATHEMATICS

Text-Books. Wentworth, Plane Trigonometry with Tables; Rietz and Crathorne, Introductory College Algebra; Dresden, Analytical Geometry.

### PHYSICS

Text-Books. Kimball, College Physics, fourth edition.

Collateral Reading. Spinney, Physics.

### PSYCHOLOGY

Text-Books. Woodsworth, Psychology; Witmer, Analytical Psychology.

Collateral Reading. Robinson and Robinson, General Reading in Psychology; Conklin, Principles of Abnormal Psychology.

### PRACTICAL OPTICS

Text-Books. Emsley and Swaine, Laurance, General and Practical Optics.

Collateral Reading. Slade, Mechanical Optics; Bugbee, Bifocals; Sterling, Handbook.

### Physiologic Optics

Text-Books. Zoethout, Physiological Optics; Laurance, Visual Optics.

Collateral Reading. Sheard, Physiological Optics; Tscherning, Physiological Optics; Helmholtz, Physiological Optics.

### Optometry

Laurance, Visual Optics; Fuchs, Text-Book of Opthalmology, seventh edition; Maddox, The Ocular Muscles; Worth, Squint. Collateral Reading, Thorington, Refraction of the Eye; Robinson, Oculo-Prism Treatment; Landolt, Refraction and Accommodation; Ryer, Opthalmometry, etc.

### Pathology, Bacteriology and Hygiene

Text-Books. Fuchs, Text-Book of Ophthalmology; Peters, Principles and Practice of Perimetry.

Collateral Reading. Roemer, Text-Book of Ophthalmology, De Schwenitz, Text-Book of Ophthalmology. Haab, Atlas of Ophthalmoscopy, etc. Troquair, Clinical Perimetry, Preventive Medicine and Hygiene, Rosenau.

### Theoretic Optics

Text-Books. Edser, Light for Students; Laurance, General and Practical Optics.

Collateral Reading. Southall, Mirrors, Lenses and Prisms; Henker, Theory of Spectacles.

### Physiology

Text-Books. Starling, Human Physiology.

Collateral Reading. Zoethout, Physiology; Howell, Physiology; Bachman and Bliss, Essentials of Physiology.

## INSPECTION TOUR

Once a year the various optical manufacturing departments of the American Optical Company at Southbridge, Massachusetts, are inspected by the students. This trip is of great value to the students as they are thus brought in contact with the materials and actual manufacture of the articles used in their work.

## STUDENTS' ASSOCIATION

The Students of the School have formed an organization known as the Pi Omicron Sigma fraternity. Students of the School in good standing are eligible for membership. The purpose of the organization is to further the interests of the student body and develop the spirit of the School.

The program includes discussion of current topics and lectures by leading business and professional men.

## STUDENT ACTIVITIES

There are several extra-curricular activities which occupy the spare time of the student and help to make his life agreeable. Among these are the fraternity, the Orchestra and class social activities. The Junior and Senior Dances are annual features.

Special arrangement with the Young Men's Christian Association of Boston gives students the advantage of gymnasium and swimming pool facilities. The Y. M. C. A. is located near this school.

## CALENDAR

### 1937 - 1938

**1937**

**September 9-10, Thursday and Friday**
Re-examination for conditioned students.

**September 13-14, Monday and Tuesday**
Registration and payment of First Semester fees.
Freshmen pay $187.00. Sophomores, Juniors and Seniors pay $177.00.

**September 15, Wednesday**
First Semester begins at 9:00 a. m.

**October 12, Tuesday**
Columbus Day, Holiday.

**November 11, Thursday**
Armistice Day, Holiday.

**November 17, Wednesday to November 23, Tuesday, inclusive**
First Mid-Term Examinations.

**November 23, Tuesday**
Thanksgiving recess begins at close of examinations.

**November 29, Monday**
Classes resumed.

**December 17, Friday**
Christmas recess begins at close of classes.

**1938**

**January 3, Monday**
Classes resumed.

**January 21, Friday to January 28, Friday, inclusive**
Mid-Year Examinations.

**January 31, Monday**
Registration and payment of fees for the Second Semester. All students pay $175.00.

**February 1, Tuesday**
Second Semester begins.

**February 22, Tuesday**
Washington's Birthday, Holiday.

**March 25, Friday to April 1, Friday, inclusive**
Second Mid-Term Examinations.

**April 15, Friday**
Spring recess begins at close of classes.

**April 25, Monday**
Classes resumed.

**May 20, Friday**
Final Examinations begin. Seniors pay graduation fee of $25.00 before taking examinations.

**June 1, Wednesday**
Graduation exercises.

**July 7, Wednesday to September 3, Friday, inclusive**
Summer sessions.